STIC Search Report
EIC 2100

STIC Database Tracking Number: 155644

TO: Cheryl Lewis **Location: RND 3B07** **Art Unit : 2167** **Tuesday, June 07, 2005** **Case Serial Number: 09/717529**	**From: David Holloway** **Location: EIC 2100** **RND 4B19** **Phone: 2-3528** **david.holloway@uspto.gov**

Search Notes

Dear Examiner Lewis,

Attached please find your search results for above-referenced case.
Please contact me if you have any questions or would like a re-focused search.

David

STIC EIC 2100 Search Request Form

155644

Today's Date: June 7, 2005

What date would you like to use to limit the search?

Priority Date: 11/21/2000 Other:

Name Cheryl Lewis

AU 2167 Examiner # 72314

Room # 3B07 Phone 272-4113

Serial # 09/717,529

Format for Search Results (Circle One):

(PAPER) DISK EMAIL

Where have you searched so far?

(USP) DWPI EPO JPO ACM IBM TDB

(IEEE) INSPEC SPI Other _____

Is this a "Fast & Focused" Search Request? (Circle One) (YES) NO

A "Fast & Focused" Search is completed in 2-3 hours (maximum). The search must be on a very specific topic and meet certain criteria. The criteria are posted in EIC2100 and on the EIC2100 NPL Web Page at http://ptoweb/patents/stic/stic-tc2100.htm.

What is the topic, novelty, motivation, utility, or other specific details defining the desired focus of this search? Please include the concepts, synonyms, keywords, acronyms, definitions, strategies, and anything else that helps to describe the topic. Please attach a copy of the abstract, background, brief summary, pertinent claims and any citations of relevant art you have found.

A method for ordering patent applications. A user submits a request to receive patents (electronic files) via electronic mail.

The user receives an e-mail for all ordered patents (electronic files). The e-mail comprises electronic text (patent document files) with text comprised of a (1) unique identifier and (2) unformatted text.

The electronic text comprises unformatted text (i.e. data within the patents) and a unique identifier (i.e. patent number).

The user copies and pastes any desired and/or whole part of the electronic text (patent document) into a web page. Some of the text in the electronic text containing page is a reference to a specific item (i.e. patent number, URN, SKU No. or other unique identifier).

STIC Searcher David Holloway Phone 2-3528

Date picked up 6-7-05 Date Completed 6-7-05

(See spec. pages 8-10 and figures 4-8)

A program parses the electronic text to identify the electronic file by the unique identifier.

```
Set     Items   Description
S1    2272566   PARS? OR TOKENI? OR MAP OR MAPPING OR MAPPED OR SEGREGAT? -
            OR (FILTER OR PULL)()OUT  OR EXTRACT?
S2      46910   IDENTIFIER? OR ID(N)(NUMBER OR TAG) OR PATENT()NUMBER? OR -
            UPC OR PRODUCT(N)(NUMBER? OR CODE?) OR UPN OR URN OR DOI
S3    4066679   CUT(N)PASTE? OR PASTING OR SELECT? OR HIGHLIGHT? OR DROP? -
            OR DRAG(N)DROP?
S4    7103946   SELECT? OR CHOOS? OR SEARCH? OR QUER? OR SEEK? OR FIND? OR
            RETRIEV? OR MATCH?
S5   14625136   DOCUMENT? OR TEXT? OR PAGE? OR PUBLICATION? OR PAPER? OR I-
            NFORMATION? OR DATA OR PATENT?()APPLICATION?
S6        139   S1 AND S2 AND S3 AND S4 AND S5
S7        148   S1(3N)S2
S8         20   S6 AND S7
S9     148141   S1(3N)S5
S10         0   S11 AND S12
S11     21956   S3(3N)(QUERY OR QUERIES OR REQUEST OR QUESTION? OR REQUESTS
             OR TEXT? OR INQUIR?)
S12      5781   S5(N)(NUMBER? OR ID OR IDENTIFIER? OR IDS)
S13       139   S6(N)S2
S14   2434941   MATCH? OR RECOGNI? OR IDENTIFY OR IDENTIFIES
S15      1230   S5(2N)S2
S16        32   S6 AND S9
S17         2   S6 AND S11
S18        61   S14(5N)S12
S19         5   S14(2N)(PATENT()(NO OR NUMBER OR ID OR IDENTIFIER?))
S20        52   S8 OR S16 OR S17 OR S19
S21        38   RD (unique items)
S22        27   S21 NOT PY>2000
S23        12   S18 AND S1
S24         7   S18 AND S3
S25        44   S23 OR S24 OR S22
S26        39   RD (unique items)
S27        36   S26 NOT PY>2000
S28       220   (TEXT OR PATENT OR TELEPHONE OR DOCUMENT)(N)(NUMBER OR IDE-
            NTIFIER? OR ID)(5N)(TEXT OR FREETEXT OR FULLTEXT)(3N)(SEARCH?
            OR QUER? OR RETRIEV?)
S29        32   S28 AND S1
S30        39   S28 AND S3
S31        63   S29 OR S30
S32        46   RD (unique items)
S33        32   S32 NOT PY>2000
S34        32   S33 NOT S27
File   8:Ei Compendex(R) 1970-2005/May W5
         (c) 2005 Elsevier Eng.  Info. Inc.
File  35:Dissertation Abs Online 1861-2005/May
         (c) 2005 ProQuest Info&Learning
File  65:Inside Conferences 1993-2005/Jun W1
         (c) 2005 BLDSC all rts. reserv.
File   2:INSPEC 1969-2005/May W5
         (c) 2005 Institution of Electrical Engineers
File  94:JICST-EPlus 1985-2005/Apr W3
         (c)2005 Japan Science and Tech Corp(JST)
File 111:TGG Natl.Newspaper Index(SM) 1979-2005/Jun 03
         (c) 2005 The Gale Group
File   6:NTIS 1964-2005/May W5
         (c) 2005 NTIS, Intl Cpyrght All Rights Res
File 144:Pascal 1973-2005/May W5
         (c) 2005 INIST/CNRS
File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec
         (c) 1998 Inst for Sci Info
File  34:SciSearch(R) Cited Ref Sci 1990-2005/May W5
         (c) 2005 Inst for Sci Info
File  99:Wilson Appl. Sci & Tech Abs 1983-2005/May
         (c) 2005 The HW Wilson Co.
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File 95:TEME-Technology & Management 1989-2005/Apr W4

34/5/3 (Item 3 from file: 8)
DIALOG(R)File 8:Ei Compendex(R)

04452578 E.I. No: EIP96043156751
Title: Intelligent retrieval of medical images from the Internet
Author: Tang, Yau-Kuo; Chiang, Ted T.
Corporate Source: Loral AeroSys, Seabrook, MD, USA
Conference Title: Medical Imaging 1996: PACS Design and Evaluation: Engineering and Clinical Issues
Conference Location: Newport Beach, CA, USA Conference Date: 19960213-19960215
Sponsor: SPIE - Int Soc for Opt Engineering, Bellingham, WA USA
E.I. Conference No.: 22519
Source: Proceedings of SPIE - The International Society for Optical Engineering v 2711 1996. Society of Photo-Optical Instrumentation Engineers, Bellingham, WA, USA. p 440-448
Publication Year: 1996
CODEN: PSISDG ISSN: 0277-786X ISBN: 0-8194-2086-7
Language: English
Document Type: CA; (Conference Article) Treatment: A; (Applications)
Journal Announcement: 9609W3
Abstract: The object of this study is using Internet resources to provide a cost-effective, user-friendly method to access the medical image archive system and to provide an easy method for the user to identify the images required. This paper describes the prototype system architecture, the implementation, and results. In the study, we prototype the Intelligent Medical Image Retrieval (IMIR) system as a Hypertext Transport Prototype server and provide Hypertext Markup Language forms for user, as an Internet client, using browser to enter image retrieval criteria for review. We are developing the intelligent retrieval engine, with the capability to **map** the free text search criteria to the standard terminology used for medical image identification. We evaluate **retrieved** records based on the **number** of the free **text** entries matched and their relevance level to the standard terminology. We are in the integration and testing phase. We have collected only a few different types of images for testing and have trained a few phrases to **map** the free text to the standard medical terminology. Nevertheless, we are able to demonstrate the IMIR's ability to search, retrieve, and review medical images from the archives using general Internet browser. The prototype also uncovered potential problems in performance, security, and accuracy. Additional studies and enhancements will make the system clinically operational. 8 Refs.
Descriptors: *Medical imaging; Information retrieval systems; Artificial intelligence; Data transfer; Computer networks; Communication systems
Identifiers: Intelligent retrieval engines; Internet; Hypertext transport ; Medical terminology
Classification Codes:

34/5/7 (Item 7 from file: 8)
DIALOG(R)File 8:Ei Compendex(R)

02237811 E.I. Monthly No: EIM8703-020941
Title: ON THE USE OF KNOWLEDGE-BASED PROCESSING IN AUTOMATIC TEXT RETRIEVAL.
Author: Salton, Gerard
Corporate Source: Cornell Univ, Ithaca, NY, USA
Conference Title: ASIS '86, Proceedings of the 49th ASIS Annual Meeting.
Conference Location: Chicago, IL, USA Conference Date: 19860928
Sponsor: ASIS, Washington, DC, USA
E.I. Conference No.: 09182
Source: Proceedings of the ASIS Annual Meeting v 23 1986. Publ by Learned Information Inc, Medford, NJ, USA p 277-287
Publication Year: 1986
CODEN: PAISDQ ISSN: 0044-7870 ISBN: 0-938734-14-8
Language: English
Document Type: PA; (Conference Paper)
Journal Announcement: 8703
Abstract: The representation of document and information content by means of single terms **extracted** from document texts is not always adequate for text processing purposes. Term relations or associations are therefore often used for the construction of complex identifiers to be attached to the information items. The complex identifications include term phrases generated by using the occurrence characteristics of certain words in document texts, and synonym classes specified in a thesaurus. The experimental evidence indicates that substantial difficulties arise in obtaining effective complex **text identifiers** that actually help in **retrieval** . To replace the existing **text** analysis methods, artificial intelligence approaches are often proposed based on the use of stored knowledge bases and expert system approaches. The main components of advanced artificial intelligence systems are briefly examined, and the conclusion is reached that the artificial intelligence methods are likely to be even more difficult to apply to normal document environments than the conventional text analysis methodologies. (Author abstract) 38 refs.
Descriptors: *INFORMATION RETRIEVAL SYSTEMS; ARTIFICIAL INTELLIGENCE--Expert Systems; INFORMATION SCIENCE--Indexing
Identifiers: AUTOMATIC TEXT RETRIEVAL; KNOWLEDGE-BASED SYSTEMS; CONTENT ANALYSIS
Classification Codes:
723 (Computer Software); 903 (Information Science)
72 (COMPUTERS & DATA PROCESSING); 90 (GENERAL ENGINEERING)

27/5/1 (Item 1 from file: 8)
DIALOG(R)File 8:Ei Compendex(R)

05121104 E.I. No: EIP98094386323
Title: Combining laboratory data **sets from multiple institutions using the logical observation** identifier **names and codes (LOINC)**
Author: Baorto, David M.; Cimino, James J.; Parvin, Curtis A.; Kahn, Michael G.
Corporate Source: Washington Univ, St. Louis, MO, USA
Source: International Journal of Medical Informatics v 51 n 1 Jul 1998. p 29-37
Publication Year: 1998
CODEN: IJMIF4 ISSN: 1386-5056
Language: English
Document Type: JA; (Journal Article) Treatment: A; (Applications)
Journal Announcement: 9811W3
Abstract: A standard set of names and codes for laboratory test results is critical for any endeavor requiring automated **data** pooling, including multi-institutional research and cross-facility patient care. This need had led to the development of the logical observation **identifier** names and codes (LOINC) database and its test-naming convention. This study is an expansion of a pilot study using LOINC to exchange laboratory **data** between Columbia University Medical Center in New York and Barnes Hospital at Washington University in St. Louis, where we described complexities and ambiguities that arose in the LOINC coding process (D.M. Baorto, J.J. Cimino, C.A. Parvin, M.G. Kahn, Proc. Am. Med. Inf. Assoc. 1997). For the present study, we required the same two medical centers to again **extract** raw laboratory **data** from their local **information** system for a defined patient population, translate tests into LOINC and provide aggregate **data** which could then be used to compare laboratory utilization. Here we examine a larger number of tests from each site which have been recorded using an updated version of the LOINC database. We conclude that the coding of local tests into LOINC can often be complex, especially the 'Kind of Property' field and apparently trivial differences in choices made by individual institutions can result in nonmatches in electronically pooled **data** . In the present study, 75% of failures to **match** the same tests between different institutions using LOINC codes were due to differences in local coding choices. LOINC has the potential to eliminate the need for detailed human inspection during the pooling of laboratory **data** from diverse sites and perhaps even a built-in capability to adjust **matching** stringency by **selecting** subsets of LOINC fields required to **match** . However, a quality standard coding procedure is required and examples **highlighted** in this **paper** may require special attention while **mapping** to LOINC. (Author abstract) 12 Refs.
Descriptors: *Medical computing; **Data** structures; Database systems; Codes (symbols); Hospitals; Societies and institutions; Hospital **data** processing; Health care
Identifiers: Laboratory **data** sets; Multiple institutions; Logical observation **identifier** names and codes
Classification Codes:
901.1.1 (Societies & Institutions)
723.5 (Computer Applications); 461.1 (Biomedical Engineering); 723.2 (Data Processing); 723.3 (Database Systems); 462.2 (Hospitals, Equipment & Supplies); 901.1 (Engineering Professional Aspects)
723 (Computer Software); 461 (Biotechnology); 462 (Medical Engineering & Equipment); 901 (Engineering Profession)
72 (COMPUTERS & DATA PROCESSING); 46 (BIOENGINEERING); 90 (GENERAL ENGINEERING)

27/5/3 (Item 3 from file: 8)
DIALOG(R)File 8:Ei Compendex(R)

04955677 E.I. No: EIP98024092035
Title: Classifying and retrieving **software components based on profiles**
Author: Hong, S.B.; Kim, Kapsu
Corporate Source: Electronics and Telecommunications Research Inst, Taejon, South Korea
Conference Title: Proceedings of the 1997 1st International Conference on Information, Communications and Signal Processing, ICICS. Part 3 (of 3)
Conference Location: Singapore, Singapore Conference Date: 19970909-19970912
Sponsor: IEEE
E.I. Conference No.: 48010
Source: Trends in Information Systems Engineering and Wireless Multimedia Communications Proceedings of the International Conference on Information, Communications and Signal Processing, ICICS v 3 1997. IEEE, Piscataway, NJ, USA. p 1756-1760
Publication Year: 1997
CODEN: 002795
Language: English
Document Type: CA; (Conference Article) Treatment: G; (General Review)
Journal Announcement: 9804W4
Abstract: We propose that the Software Reuse System can classify, register, and **retrieve** software components based on their profiles. There are two profiles : Object Profiles are constructed by **extracting** from software components their **identifiers** , function **identifiers** , and variable **identifiers** . Virtual Profiles are made by **extracting** common **identifiers** and their weights from Object Profiles or Virtual Profiles. By similarity function, the similarity values between profiles and software components are calculated, classified, registered by their value. To **retrieve** software components, keywords representing the software components and their weights are inputted by users. The similarity value of keywords and profiles is calculated, and software components with most high similarity value are **retrieved** . This system can register and **retrieve** software components more easily than other system and classify and **retrieve** software components faster than the systems using conventional **information retrieval** method. (Author abstract) 8 Refs.
Descriptors: *Computer software **selection** and evaluation; Computer aided software engineering; **Information retrieval** systems; Database systems
Identifiers: Software reuse systems; Virtual profiles; Object profiles
Classification Codes:
723.1 (Computer Programming); 723.5 (Computer Applications); 903.3 (Information Retrieval & Use); 723.3 (Database Systems)
723 (Computer Software); 903 (Information Science)
72 (COMPUTERS & DATA PROCESSING); 90 (GENERAL ENGINEERING)

27/5/4 (Item 4 from file: 8)
DIALOG(R)File 8:Ei Compendex(R)

04675987 E.I. No: EIP97043627828
Title: Selection **of passages for** information **reduction**
Author: Daniels, Jody J.
Corporate Source: Univ of Massachusetts, Amherst, MA, USA
Conference Title: Proceedings of the 1996 13th National Conference on Artificial Intelligence. Part 2 (of 2)
Conference Location: Portland, OR, USA Conference Date: 19960804-19960808
Sponsor: AAAI
E.I. Conference No.: 46255
Source: Proceedings of the National Conference on Artificial Intelligence v 2 1996. AAAI, Menlo Park, CA, USA. p 1360
Publication Year: 1996
CODEN: PNAIEE
Language: English
Document Type: CA; (Conference Article) Treatment: G; (General Review)
Journal Announcement: 9706W2
Abstract: **Selection** of Passages for **Information** REduction (SPIRE) integrates a case based reasoning with an **information retrieval** (IR) engine for automated **information extraction** . SPIRE works by focusing on portions of a **text** most likely to contain the desired **informations** . This case-based reasoning (CBR) system generates an IR **query** by passing the **identifiers** of the **documents** , describing fact situations most similar to the current problem, to an IR engine. Using these annotations, the IR component generates a new **query** aimed at **retrieving** small relevant passages from the **documents** . The location and display of these important passages reduces reading and results in a tremendous savings in time and effort. 1 Refs.
Descriptors: ***Informatio** n **retrieval** systems; **Inf**ormation technology ; Inference engines; **Query** languages; Knowledge based systems; Knowledge representation
Identifiers: **Selection** of passages for **information** reduction (SPIRE); Case based reasoning (CBR) systems; Automated **information extraction**
Classification Codes:
723.4.1 (Expert Systems)
903.3 (Information Retrieval & Use); 723.5 (Computer Applications); 723.4 (Artificial Intelligence); 723.3 (Database Systems)
903 (Information Science); 723 (Computer Software)
90 (GENERAL ENGINEERING); 72 (COMPUTERS & DATA PROCESSING)

27/5/16 (Item 9 from file: 2)
DIALOG(R)File 2:INSPEC

00446867 INSPEC Abstract Number: C72023814
Title: Data **processor**
Assignee(s): RCA Corp
Patent Number: GB 1280772 Issue Date: 720705
Application Date: 700121
Priority Appl. Number: US 793043 Priority Appl. Date: 690122
Country of Publication: UK
Language: English Document Type: Patent (PT)
Treatment: Practical (P)
Abstract: The processor includes a buffer memory each addressable location of which stores **data** and an **identifier** segment. The memory address generator provides a locator segment identifying a memory location and a tag segment, the address **selector** responds to the address locator segment only to **extract** the **data** and **identifier** segment from the corresponding memory location, and this **identifier** segment is compared with the address tag segment to enable gates transferring the **data** to a computer when equality is found.
Subfile: C
Descriptors: **data** handling; digital computers; digital storage
Identifiers: **data** processor; buffer memory; addressable location; **identifier** segment; memory address generator; locator segment; tag segment ; address **selector** ; **identifier** segment; address tag segment; gates; equality
Class Codes: C6130 (Data handling techniques)

27/5/17 (Item 10 from file: 2)
DIALOG(R)File 2:INSPEC

00113897 INSPEC Abstract Number: C70005997
Title: Keyword-in-context index for technical literature (KWIC index)
Author(s): Luhn, H.P.
Book Title: Pioneer of **information** science, **selected** works p. 227-35
Editor(s): Schultz, C.K.
Publisher: Macmillan, London, UK
Publication Date: 1969 Country of Publication: UK 3+320 pp.
Language: English Document Type: Book Chapter (BC)
Abstract: A distinction is made between bibliographical indexes for new and past literature based on the willingness of the user to trade perfection for currency. Indexes giving keywords in their context are proposed as suitable for disseminating new **information** . These can be entirely machine-generated and hence kept up to date with the current literature. A compatible coding scheme to identify the indexed **documents** is also proposed. In it elements are automatically **extracted** from the usual **identifiers** of the **document** so that the coded **identifier** yields a maximum of **information** while remaining susceptible to normal methods of ordering. (First published 1959).
Subfile: C
Descriptors: indexing
Class Codes: C7240 (Information analysis and indexing)

27/5/19 (Item 2 from file: 94)
DIALOG(R)File 94:JICST-EPlus

03592839 JICST ACCESSION NUMBER: 98A0311571 FILE SEGMENT: JICST-E
Car number recognition technology for vehicle identification. From "kilo" to "minute", traffic jam information.
KANEYAMA KENJI (1)
(1) Omron Corp.
Gazo Rabo, 1998, VOL.9,NO.3, PAGE.18-22, FIG.6, REF.6
JOURNAL NUMBER: L2340AAI ISSN NO: 0915-6755
UNIVERSAL DECIMAL CLASSIFICATION: 681.3:165 656.1.05
LANGUAGE: Japanese COUNTRY OF PUBLICATION: Japan
DOCUMENT TYPE: Journal
ARTICLE TYPE: Commentary
MEDIA TYPE: Printed Publication
ABSTRACT: The method if recognizing a license number is the most effective system for identifying a car sine a license plate substantially assures uniqueness. This paper introduces the recent trend by focusing on concrete examples applied to license number recognition technique and the vehicle control field. This paper describes the issues and the future trends of license number recognition technique, **recognition** algorith, examples applied to license **number information** , and license number **recognition** .
DESCRIPTORS: traffic control; character recognition; numerical character; imaging; image processing; edge detection; feature **extraction** ; discriminant function; real time processing; automobile; automotive fitting
BROADER DESCRIPTORS: traffic management; management; control; figure pattern recognition; pattern recognition; recognition; letter; information processing; treatment; detection; **extraction** ; separation; function(mathematics); **mapping** (mathematics)
CLASSIFICATION CODE(S): JE07000S; TB01032S

34/5/8 (Item 8 from file: 8)
DIALOG(R)File 8:Ei Compendex(R)

02095485 E.I. Monthly No: EIM8606-035415
Title: MATCHING STRING PATTERNS IN LARGE TEXTUAL FILES.
Author: Berkovich, Simon Y.; Hegazy, Abd El Fatah A.
Corporate Source: George Washington Univ, Washington, DC, USA
Conference Title: International Symposium on New Directions in Computing.
Conference Location: Trondheim, Norw Conference Date: 19850812
Sponsor: IEEE Computer Soc, Los Alamitos, CA, USA; Norwegian Inst of Technology, Trondheim, Norw; Kongsberg Vaepenfabrikk, Norw
E.I. Conference No.: 07877
Source: Publ by IEEE, New York, NY, USA. Available from IEEE Service Cent (Cat n 85CH2134-5), Piscataway, NJ, USA p 122-127
Publication Year: 1985
ISBN: 0-8186-0639-8
Language: English
Document Type: PA; (Conference Paper)
Journal Announcement: 8606
Abstract: The authors present a general approach that could be efficient when searching large textual files for near-matching of a set of patterns. The approach is based on a **mapping** of string segments into key- **number** values. To apply the terms of **query** against **text** strings in a single pass simultaneously, the input set of patterns is arranged in a hash table. The tolerance property of hash collisions and pattern representation by segment **extraction** can be used to detect different classes of string variations. 12 refs.
Descriptors: *DATABASE SYSTEMS; DATA PROCESSING--File Organization
Identifiers: STRING PATTERN MATCHING; LARGE TEXTUAL FILES; DATABASE SEARCHING; HASH TABLES
Classification Codes:
723 (Computer Software)
72 (COMPUTERS & DATA PROCESSING)

34/5/15 (Item 1 from file: 2)
DIALOG(R)File 2:INSPEC

6787568 INSPEC Abstract Number: C2001-01-6180N-017
Title: Probability-based Chinese text processing and retrieval
Author(s): Hiangji Huang; Robertson, S.; Cercone, N.; An, A.
Author Affiliation: Dept. of Inf. Sci., City Univ., London, UK
Journal: Computational Intelligence vol.16, no.4 p.552-69
Publisher: Blackwell Publishers,
Publication Date: Nov. 2000 Country of Publication: USA
CODEN: COMIE6 ISSN: 0824-7935
SICI: 0824-7935(200011)16:4L.552:PBCT;1-7
Material Identity Number: P953-2000-004
Language: English Document Type: Journal Paper (JP)
Treatment: Theoretical (T)
Abstract: We discuss the use of probability-based natural language processing for Chinese **text retrieval** . We focus on comparing different **text extraction** methods and probabilistic weighting methods. Several **document** processing methods and probabilistic weighting functions are presented. A **number** of experiments have been conducted on large standard text collections. We present the experimental results that compare a word-based text processing method with a character-based method. The experimental results also compare a number of term-weighting functions including both single-unit weighting and compound-unit weighting functions. (15 Refs)
Subfile: C
Descriptors: information retrieval; natural languages; text analysis
Identifiers: Chinese text processing; natural language processing; Chinese text retrieval; text **extraction** ; probabilistic weighting
Class Codes: C6180N (Natural language processing); C4210L (Formal languages and computational linguistics); C7250 (Information storage and retrieval)

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Set     Items   Description
S1     620682   PARS? OR TOKEN? OR MAP OR MAPPING OR MAPPED OR SEGREGAT? OR
              (FILTER OR PULL)()OUT  OR EXTRACT?
S2      41612   IDENTIFIER? OR ID(N)(NUMBER OR TAG) OR PATENT()NUMBER? OR -
             UPC OR PRODUCT(N)(NUMBER? OR CODE?) OR UPN OR URN OR DOI
S3    1974116   CUT(N)PASTE? OR PASTING OR SELECT? OR HIGHLIGHT? OR DROP? -
             OR DRAG(N)DROP?
S4    2131005   SELECT? OR CHOOS? OR SEARCH? OR QUER? OR SEEK? OR FIND? OR
             RETRIEV? OR MATCH?
S5    3977817   DOCUMENT? OR TEXT? OR PAGE? OR PUBLICATION? OR PAPER? OR I-
             NFORMATION? OR DATA OR PATENT?()APPLICATION?
S6        627   S1 AND S2 AND S3 AND S4 AND S5
S7       1029   S1(3N)S2
S8        153   S6 AND S7
S9         85   S8 AND IC=G06F
S10        55   S9 NOT AD=20001121:20031121
S11        55   S10 NOT AD=20031121:20050701
S12     91006   S1(3N)S5
S13        23   S11 AND S12
S14        23   IDPAT (sorted in duplicate/non-duplicate order)
S15        22   IDPAT (primary/non-duplicate records only)
File 347:JAPIO Nov 1976-2005/Jan(Updated 050506)
         (c) 2005 JPO & JAPIO
File 350:Derwent WPIX 1963-2005/UD,UM &UP=200535
         (c) 2005  Thomson Derwent
```

15/5/6 (Item 6 from file: 350)
DIALOG(R)File 350:Derwent WPIX

012642683 **Image available**
WPI Acc No: 1999-448788/199938
XRPX Acc No: N99-335274
Data **file request processing system for client server network - selects specific starting method among several registered methods, in response to** data **file request**
Patent Assignee: FUJI XEROX CO LTD (XERF)
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
JP 11184813	A	19990709	JP 97352612	A	19971222	199938	B

Priority Applications (No Type Date): JP 97352612 A 19971222
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 11184813	A		34	G06F-015/00	

Abstract (Basic): JP 11184813 A
NOVELTY - A file name analyzer (202) **extracts** method **identifier** and group **identifier** , from qualified name. A client management table registers **identifier** of one or more clients, corresponding to group **identifier** of client. A starting method is **selected** among several registered methods, in response to **data** file request. DETAILED DESCRIPTION - A specific execution method is identified within one or more methods to be started in the server. The server **extracts** the **data** file name within the request received from client.
USE - For client-server network.
ADVANTAGE - The **information** relating to **data** updation, is delivered to each client appropriately even under heavy sharing condition. DESCRIPTION OF DRAWING(S) - The figure shows block diagram of **data** communication system. (202) Analyzer.
Dwg.2/21
Title Terms: **DATA** ; FILE; REQUEST; PROCESS; SYSTEM; CLIENT; SERVE; NETWORK ; **SELECT** ; SPECIFIC; START; METHOD; REGISTER; METHOD; RESPOND; **DATA** ; FILE; REQUEST
Derwent Class: T01
International Patent Class (Main): **G06F-015/00**
International Patent Class (Additional): **G06F-012/00** ; **G06F-013/00**
File Segment: EPI

15/5/7 (Item 7 from file: 350)
DIALOG(R)File 350:Derwent WPIX

012575074 **Image available**
WPI Acc No: 1999-381181/199932
XRPX Acc No: N99-285924
Search information **display method in hypermedia system - involves** searching data **outputs and** extracting **structure** identifier **and displaying** search **result to client**
Patent Assignee: NEC CORP (NIDE)
Number of Countries: 001 Number of Patents: 002
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
JP 11149479	A	19990602	JP 97315256	A	19971117	199932	B
JP 2965018	B2	19991018	JP 97315256	A	19971117	199949	

Priority Applications (No Type Date): JP 97315256 A 19971117
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 11149479	A		7	G06F-017/30	
JP 2965018	B2		7	G06F-017/30	Previous Publ. patent JP 11149479

Abstract (Basic): JP 11149479 A
NOVELTY - A structure name corresponds to each structure **identifier** and for each attribute registered mutual relationship between node and link of each structure **identifier** is shown to hierarchical structure. The **search** result is obtained by the directory server **searching data** outputs and the structure **identifier** is **extracted** and is displayed to client. DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for **search information** display apparatus.
USE - For displaying **search information**0 in hypermedia system.
ADVANTAGE - As **search** result is obtained by the server **searching data** outputs and **extracts** structure **identifier** and required **information** can be **selected** easily. DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of **search** media of a directory server.
Dwg.1/8
Title Terms: **SEARCH** ; **INFORMATION** ; DISPLAY; METHOD; SYSTEM; **SEARCH** ; **DATA** ; OUTPUT; **EXTRACT** ; STRUCTURE; IDENTIFY; DISPLAY; **SEARCH** ; RESULT; CLIENT
Derwent Class: T01
International Patent Class (Main): **G06F-017/30**
International Patent Class (Additional): **G06F-012/00** ; **G06F-013/00**
File Segment: EPI

15/5/8 (Item 8 from file: 350)
DIALOG(R)File 350:Derwent WPIX

012498399 **Image available**
WPI Acc No: 1999-304503/199926
Related WPI Acc No: 1994-185223; 1999-304502
XRPX Acc No: N99-228250

Server for connecting clients and output units connected to server in computer system

Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD (MATU)
Inventor: OHNISHI T; OINUMA C; WADA H

Number of Countries: 003 Number of Patents: 003
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 918283	A2	19990526	EP 93309919	A	19931209	199926 B
			EP 99104122	A	19931209	
EP 918283	B1	20030219	EP 93309919	A	19931209	200314
			EP 99104122	A	19931209	
DE 69332703	E	20030327	DE 632703	A	19931209	200329
			EP 99104122	A	19931209	

Priority Applications (No Type Date): JP 93267450 A 19931026; JP 92330573 A 19921210; JP 9386235 A 19930413; JP 93268132 A 19930929
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 918283	A2	E	86	G06F-009/46	Div ex application EP 93309919 Div ex patent EP 601860
Designated States (Regional): DE FR GB					
EP 918283	B1	E		G06F-009/46	Div ex application EP 93309919 Div ex patent EP 601860
Designated States (Regional): DE FR GB					
DE 69332703	E			G06F-009/46	Based on patent EP 918283

Abstract (Basic): EP 918283 A2

NOVELTY - The server involves **data** which is included in a job request, and an output unit **selecting** portion. The output **selecting** portion includes a capability storage unit for storing a capability at each output unit in the system; a capability **identifier extracting** unit for **extracting** an **identifier** specifying a capability of the **selected** output unit from the job request; and an optimal output unit detecting unit for detecting all optimal output units whose capabilities coincide with a capability specified by the capability-specifying- **identifier** when the output unit **selecting** portion **selects** the output units to be as the **selected** output unit.

DETAILED DESCRIPTION - The server involves a holding unit for holding output unit **information** that represents correspondence between the output units and the output **information** ; a job request receiving portion for receiving from one of the clients a job request containing output **information** and an **information extracting** portion for **extracting** the output **information** from the job request; an output unit **selecting** unit for **selecting** one of the output units in accordance with the **extracted** output **information** ; and **data** output portion for sending **data** to the **selected** output unit.

USE - For connecting clients and output units e.g. printer, plotter or facsimile connected to the server in a system, with clients issuing job requests containing output **information** .

ADVANTAGE - Can easily **select** adequate output unit for job request, even when client has no prior knowledge of any output unit connected to that server. Ensures rational use of output units by judging their current status and **selecting** the most appropriate one.

DESCRIPTION OF DRAWING(S) - The drawing shows a diagram to illustrate the server.

pp; 86 DwgNo 1/56
Title Terms: SERVE; CONNECT; CLIENT; OUTPUT; UNIT; CONNECT; SERVE; COMPUTER ; SYSTEM
Derwent Class: T01
International Patent Class (Main): **G06F-009/46**
International Patent Class (Additional): **G06F-003/12** ; H04L-029/06
File Segment: EPI

15/5/11 (Item 11 from file: 350)
DIALOG(R)File 350:Derwent WPIX

012260254 **Image available**
WPI Acc No: 1999-066360/199906
XRPX Acc No: N99-049621
Information **classification judging method in** information **providing system connected to network - involves assigning temporary** information **classification to be true classification, if** information **classification with specific pattern is not obtained from** information **file**
Patent Assignee: NIPPON TELEGRAPH & TELEPHONE CORP (NITE)
Number of Countries: 001 Number of Patents: 002
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
JP 10312326	A	19981124	JP 97122405	A	19970513	199906	B
JP 3437739	B2	20030818	JP 97122405	A	19970513	200356	

Priority Applications (No Type Date): JP 97122405 A 19970513
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 10312326	A		4	G06F-012/00	
JP 3437739	B2		4	G06F-012/00	Previous Publ. patent JP 10312326

Abstract (Basic): JP 10312326 A
The method involves **extracting** a fixed portion from an input **identifier** . A temporary **information** classification is obtained from an **information** file (17) based on the **extracted** fixed portion using an **information** classification correspondence unit (13).
A contents identification unit (14) identifies whether a specific pattern is provided in a predetermined area of the **information** file, which is **extracted** based on the **identifier** . A true **information** classification is obtained by executing the **information** file as a script using a script executing unit (15). When the **information** classification with the specific pattern is not obtained, the temporary classification is assigned to be the true **information** classification of the **information** file.
ADVANTAGE - Performs dynamic **selection** of **information** classification by script execution. Offers correct **information** classification.
Dwg.2/3
Title Terms: **INFORMATION** ; CLASSIFY; JUDGEMENT; METHOD; **INFORMATION** ; SYSTEM; CONNECT; NETWORK; ASSIGN; TEMPORARY; **INFORMATION** ; CLASSIFY; TRUE; CLASSIFY; **INFORMATION** ; CLASSIFY; SPECIFIC; PATTERN; OBTAIN; **INFORMATION** ; FILE
Derwent Class: T01
International Patent Class (Main): **G06F-012/00**
International Patent Class (Additional): **G06F-009/06** ; **G06F-009/445**
File Segment: EPI

15/5/13 (Item 13 from file: 350)
DIALOG(R)File 350:Derwent WPIX

011651090 **Image available**
WPI Acc No: 1998-067998/199807
XRPX Acc No: N98-053806
Relational data **base management method with** document search **function - involves** extracting **first and second record** identifier **from** document **number and attribute value of** search **request signal based on which** document data **from** data **base is** searched
Patent Assignee: HITACHI LTD (HITA); HITACHI SOFTWARE ENG CO LTD (HISF)
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
JP 9305622	A	19971128	JP 96117311	A	19960513	199807	B

Priority Applications (No Type Date): JP 96117311 A 19960513
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 9305622	A		15	G06F-017/30	

Abstract (Basic): JP 9305622 A
The method involves receiving **data searching** request signal which contain the **document** number in the keyword, from an input unit (1). Based on the received request signal, the first record **identifier** for the **data** to be **searched** is **extracted** . The second record **identifier** from the attribute **data** included in the conditional expression of the **searched** request signal is **extracted** .
Based on the **extracted** first and second record **identifier** , the **document** corresponding to the **selected data** record is **extracted** from a **data** base.
ADVANTAGE - Improves efficiency of **data searching** process. Enables easy identification of record **identifier** from **search** request signal.
Dwg.3/14
Title Terms: RELATED; **DATA** ; BASE; MANAGEMENT; METHOD; **DOCUMENT** ; **SEARCH** ; FUNCTION; **EXTRACT** ; FIRST; SECOND; RECORD; IDENTIFY; **DOCUMENT** ; NUMBER; ATTRIBUTE; VALUE; **SEARCH** ; REQUEST; SIGNAL; BASED; **DOCUMENT** ; **DATA** ; **DATA** ; BASE; **SEARCH**
Derwent Class: T01
International Patent Class (Main): **G06F-017/30**
File Segment: EPI

15/5/18 (Item 18 from file: 347)
DIALOG(R)File 347:JAPIO

05597714 **Image available**
PROCESSOR AND METHOD FOR **DOCUMENT** PROCESSING

PUB. NO.: 09-212514 [JP 9212514 A]
PUBLISHED: August 15, 1997 (19970815)
INVENTOR(s): IMASATO SHIYOU
APPLICANT(s): RICOH CO LTD [000674] (A Japanese Company or Corporation), JP (Japan)
APPL. NO.: 08-015432 [JP 9615432]
FILED: January 31, 1996 (19960131)
INTL CLASS: [6] **G06F-017/30** ; G06T-001/00; G06K-009/20
JAPIO CLASS: 45.4 (**INFORMATION** PROCESSING -- Computer Applications); 45.3 (**INFORMATION** PROCESSING -- Input Output Units); 45.9 (**INFORMATION** PROCESSING -- Other
JAPIO KEYWORD: R131 (**INFORMATION** PROCESSING -- Microcomputers & Microprocessers

ABSTRACT

PROBLEM TO BE SOLVED: To **extract** an adequate part as a **document** element from a **document** image and give a proper **identifier** by **extracting** **document** elements from the **document** image, line by line.

SOLUTION: When an area **extracting** means 17 **extracts** plural partial areas from the **document** image and a feature **extracting** means 18 **extracts** features from the **extracted** partial areas, an area array means 19 arrays the partial areas in order according to the features at the **extraction** positions. An area dividing means 20 divides the respective arrayed partial areas as line areas, line by line, and a **matching** decision means 21 assigns the divided line areas to **document** elements set in a **document** element dictionary 15 according to the **matching** of the features. Thus, line areas assigned repeatedly to plural **document** elements among the line areas which are assigned to **document** areas are **selected** by an element **extracting** means 22 according to the mutual position relation.

15/5/21 (Item 21 from file: 347)

03342966 **Image available**
ON-LINE PROGRAM CONTROL SYSTEM

PUB. NO.: 03-005866 [JP 3005866 A]
PUBLISHED: January 11, 1991 (19910111)
INVENTOR(s): TSUDA YASUHIRO
APPLICANT(s): NEC SOFTWARE KANSAI LTD [490843] (A Japanese Company or Corporation), JP (Japan)
APPL. NO.: 01-140372 [JP 89140372]
FILED: June 01, 1989 (19890601)
INTL CLASS: [5] **G06F-015/00**
JAPIO CLASS: 45.4 (**INFORMATION** PROCESSING -- Computer Applications
JOURNAL: Section: P, Section No. 1181, Vol. 15, No. 115, Pg. 166, March 19, 1991 (19910319)

ABSTRACT

PURPOSE: To simplify a program and to improve program generating efficiency by executing the different program by the same message **identifier** when a reception message with the message **identifier** is received from terminal equipment provided with a terminal address.

CONSTITUTION: An execution program is **selected** by storing **information** for **extracting** the message **identifier** of the reception message 3 from the terminal equipment 1 in a message **identifier extracting** table 30, in addition generating the combination of the terminal address and the message **identifier** and the name of the execution program corresponding to it in an execution program determining table 40 and storing these two tables 30, 40. Accordingly, even in the case where the messages with the same message **identifier** are received from plural terminal equipment 1, the different programs corresponding to the respective terminal equipments 1 can be executed. Thus, the program becomes simple, and the program generating efficiency is improved.

```
Set     Items   Description
S1     620682   PARS? OR TOKEN? OR MAP OR MAPPING OR MAPPED OR SEGREGAT? OR
              (FILTER OR PULL)()OUT  OR EXTRACT?
S2      41612   IDENTIFIER? OR ID(N)(NUMBER OR TAG) OR PATENT()NUMBER? OR -
             UPC OR PRODUCT(N)(NUMBER? OR CODE?) OR UPN OR URN OR DOI
S3    1974116   CUT(N)PASTE? OR PASTING OR SELECT? OR HIGHLIGHT? OR DROP? -
             OR DRAG(N)DROP?
S4    2131005   SELECT? OR CHOOS? OR SEARCH? OR QUER? OR SEEK? OR FIND? OR
             RETRIEV? OR MATCH?
S5    3977817   DOCUMENT? OR TEXT? OR PAGE? OR PUBLICATION? OR PAPER? OR I-
             NFORMATION? OR DATA OR PATENT?()APPLICATION?
S6        627   S1 AND S2 AND S3 AND S4 AND S5
S7       1029   S1(3N)S2
S8        153   S6 AND S7
S9         85   S8 AND IC=G06F
S10        55   S9 NOT AD=20001121:20031121
S11        55   S10 NOT AD=20031121:20050701
S12     91006   S1(3N)S5
S13        23   S11 AND S12
S14        23   IDPAT (sorted in duplicate/non-duplicate order)
S15        22   IDPAT (primary/non-duplicate records only)
S16      8243   S3(3N)(QUERY OR QUERIES OR REQUEST OR QUESTION? OR REQUESTS
              OR TEXT? OR INQUIR?)
S17        20   S6 AND S16
S18     24997   S5(N)(NUMBER? OR ID OR IDENTIFIER? OR IDS)
S19       627   S6(N)S2
S20        47   S18 AND S6
S21        62   (S17 OR S20) NOT S11
S22        41   S21 AND IC=G06F
S23        24   S22 NOT AD=20001121:20031121
S24        23   S23 NOT AD=20031121:20050707
S25        23   IDPAT (sorted in duplicate/non-duplicate order)
S26        22   IDPAT (primary/non-duplicate records only)
File 347:JAPIO Nov 1976-2005/Jan(Updated 050506)
         (c) 2005 JPO & JAPIO
File 350:Derwent WPIX 1963-2005/UD,UM &UP=200535
         (c) 2005  Thomson Derwent
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26/5/3 (Item 3 from file: 350)
DIALOG(R)File 350:Derwent WPIX

013010930 **Image available**
WPI Acc No: 2000-182782/200016
Related WPI Acc No: 2000-182783; 2001-439995; 2003-196789; 2003-391179; 2003-465760
XRPX Acc No: N00-134748
Distributed computer database system information retrieval **using fuzzy** queries **for classifying blood vessels lesions and tumors by accessing hash table for obtaining object** identifiers **from it**
Patent Assignee: JARG CORP (JARG-N)
Inventor: BACLAWSKI K P
Number of Countries: 027 Number of Patents: 006
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200005663	A2	20000203	WO 99US16925	A	19990723	200016 B
AU 9954602	A	20000214	AU 9954602	A	19990723	200029
EP 1025518	A2	20000809	EP 99940823	A	19990723	200039
			WO 99US16925	A	19990723	
JP 2002521752	W	20020716	WO 99US16925	A	19990723	200261
			JP 2000561571	A	19990723	
US 6463433	B1	20021008	US 9894110	P	19980724	200269
			US 9894347	P	19980728	
			WO 99US16925	A	19990723	
			US 2000509328	A	20000323	
CN 1514976	A	20040721	CN 99801676	A	19990723	200468

Priority Applications (No Type Date): US 9894347 P 19980728; US 9894110 P 19980724; US 2000509328 A 20000323
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
WO 200005663	A2	E	52	G06F-017/30	
Designated States (National): AU CA CN ID IL JP MX US					
Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE					
AU 9954602	A			G06F-017/30	Based on patent WO 200005663
EP 1025518	A2	E		G06F-017/30	Based on patent WO 200005663
Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE					
JP 2002521752	W		60	G06F-017/30	Based on patent WO 200005663
US 6463433	B1			G06F-017/30	Provisional application US 9894110 Provisional application US 9894347 Based on patent WO 200005663
CN 1514976	A			G06F-017/30	

Abstract (Basic): WO 200005663 A2

NOVELTY - A number of features is **extracted** from **query** , while each of the features is fragmented into feature fragments each of which is hashed into hashed feature fragments. The latter can be used in accessing a hash table for obtaining object **identifiers** from it that can be used for obtaining **information** from the database relevant to the **query** .

DETAILED DESCRIPTION - The method involves.

(a) **selecting** a first one of a number of home nodes;

(b) **extracting** , by the **selected** home node, a number of features from a **query** by a user;

(c) fragmenting, by the **selected** home node, each **extracted** feature of the number of **extracted** features into a number of **query** fragments;

(d) hashing, by the **selected** home node, each **query** fragment of the number of **query** fragments, the hashed **query** fragment having a first portion and a second portion;

(e) transmitting, by the **selected** home node, each hashed **query** fragment of the number of **query** fragments to a respective one of the

number of **query** nodes indicated by the first portion of each the hashed **query** fragment;

(f) using, by the **query** node, the second portion of the respective hash **query** fragment to access **data** according to a local hash table located on the **query** node; and

(g) returning, by each **query** node accessing **data** according to the respective hashed **query** fragment, a number of object **identifiers** corresponding to the accessed **data** to the **selected** home node.

INDEPENDENT CLAIMS are included for:

(a) a distributed computer database system having an **information retrieval** tool for handling **queries** from a user

(b) an **information retrieval** apparatus for processing **query** for word based and non-word based **retrieval** of **information** from database

(c) a computer program for processing **query** for word based and non-word based **retrieval** of **information** from a database

(d) an **information** indexing system for indexing **information** for facilitating **retrieval** from database

(e) a computer program for indexing **information** for facilitating **retrieval** from database

USE - In distributed computer database.

ADVANTAGE - Provides an **information retrieval** system that can **retrieve information** from a unified database of word and non-word based **information** , including **documents** , images and other forms of multimedia, using a single indexing system. Such **information retrieval** systems preferably may be highly scalable, versatile, robust and economical.

DESCRIPTION OF DRAWING(S) - The drawing is a block diagram of an embodiment of the present invention.

user computer (102)
link (103)
home nodes (106)
local area network (108)
query nodes (109)
object nodes (110)
external servers (111)
pp; 52 DwgNo 1/8

Title Terms: DISTRIBUTE; COMPUTER; DATABASE; SYSTEM; **INFORMATION** ; **RETRIEVAL** ; FUZZ; **QUERY** ; CLASSIFY; BLOOD; VESSEL; LESION; TUMOUR; ACCESS; HASH; TABLE; OBTAIN; OBJECT; IDENTIFY

Derwent Class: T01

International Patent Class (Main): **G06F-017/30**

International Patent Class (Additional): **G06F-012/00**

File Segment: EPI

26/5/4 (Item 4 from file: 350)
DIALOG(R)File 350:Derwent WPIX

012701993 **Image available**
WPI Acc No: 1999-508104/199942
Related WPI Acc No: 2001-181207
XRPX Acc No: N99-378652

Message faxing method for directory services over internet

Patent Assignee: ZIP2 CORP (ZIPT-N)
Inventor: FITZGERALD M J; MUSK E
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
US 5944769	A	19990831	US 96745868	A	19961108	199942	B

Priority Applications (No Type Date): US 96745868 A 19961108
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 5944769	A		10	G06F-013/38	

Abstract (Basic): US 5944769 A

NOVELTY - A **map** and an indicator on the **map** are displayed after receiving **information** from server. Direction from starting location given as input is displayed on **selected** location. A facsimile icon using facsimile number is **selected** from database for faxing message to **selected** location.

DETAILED DESCRIPTION - A business name and corresponding location stored in database satisfying user **query** is **selected** from business name which are received from server and displayed. The facsimile number is stored in database corresponding to the business names and locations. A business **identifier** which is business icon is stored in database corresponding to several business names and is displayed. An INDEPENDENT CLAIM is also included for the systems for communicating over a network.

USE - For providing directory services over internet.

ADVANTAGE - Since business directory and **map** database are integrated, the user has facility of **searching** business directory using **map** database with the radius feature to quantify the **search** and obtains directions from specified user location to a **selected search** result by single website access.

DESCRIPTION OF DRAWING(S) - The figure shows the flowchart for interactions between client and server for **search** and **map** generation.

pp; 10 DwgNo 3/8

Title Terms: MESSAGE; METHOD; DIRECTORY; SERVICE
Derwent Class: S02; T01
International Patent Class (Main): **G06F-013/38**
International Patent Class (Additional): G01C-021/00; **G06F-017/30**
File Segment: EPI

26/5/13 (Item 13 from file: 350)
DIALOG(R)File 350:Derwent WPIX

009416252 **Image available**
WPI Acc No: 1993-109764/199314
XRPX Acc No: N93-083652
Data **processing system with random access rendering of electronic documents - uses descriptive mark-up elements, each defining node or element of tree structure for** document **, and provides unique** identifier **for each element to facilitate** text **handling**
Patent Assignee: DEROSE S (DERO-I); ELECTRONIC BOOK TECHNOLOGIES INC (ELBO-N); INSO PROVIDENCE CORP (INSO-N); ENIGMA INFORMATION SYSTEMS LTD (ENIG-N)
Inventor: DEROSE S; VOGEL J
Number of Countries: 002 Number of Patents: 008
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
CA 2048039	A	19930120	CA 2048039	A	19910729	199314 B
US 5557722	A	19960917	US 91733204	A	19910719	199643
			US 95419051	A	19950407	
US 5644776	A	19970701	US 91733204	A	19910719	199732
			US 95419051	A	19950407	
			US 95480611	A	19950607	
US 5708806	A	19980113	US 91733204	A	19910719	199809
			US 95419051	A	19950407	
			US 95488547	A	19950607	
US 5983248	A	19991109	US 91733204	A	19910719	199954
			US 95419051	A	19950407	
			US 95480611	A	19950607	
			US 97885578	A	19970630	
US 6101511	A	20000808	US 91733204	A	19910719	200040
			US 95419051	A	19950407	
			US 95480611	A	19950607	
			US 97885578	A	19970630	
			US 99352588	A	19990713	
US 6101512	A	20000808	US 91733204	A	19910719	200040
			US 95419051	A	19950407	
			US 95480611	A	19950607	
			US 97885578	A	19970630	
			US 99353257	A	19990713	
US 6105044	A	20000815	US 91733204	A	19910719	200041
			US 95419051	A	19950407	
			US 95480611	A	19950607	
			US 97885578	A	19970630	
			US 99353262	A	19990713	

Priority Applications (No Type Date): US 91733204 A 19910719; US 95419051 A 19950407; US 95480611 A 19950607; US 95488547 A 19950607; US 97885578 A 19970630; US 99352588 A 19990713; US 99353257 A 19990713; US 99353262 A 19990713
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
CA 2048039	A		96	G06F-009/00	
US 5557722	A		39	G06F-017/21	Cont of application US 91733204
US 5644776	A		37	G06F-017/21	Cont of application US 91733204 Div ex application US 95419051 Div ex patent US 5557722
US 5708806	A		39	G06F-017/21	Cont of application US 91733204 Div ex application US 95419051
US 5983248	A			G06F-017/21	Cont of application US 91733204 Div ex application US 95419051 Cont of application US 95480611 Div ex patent US 5557722 Cont of patent US 5644776
US 6101511	A			G06F-017/21	Cont of application US 91733204

			Div ex application US 95419051 Cont of application US 95480611 Div ex application US 97885578 Div ex patent US 5557722 Cont of patent US 5644776 Div ex patent US 5983248
US 6101512	A	G06F-017/21	Cont of application US 91733204 Div ex application US 95419051 Cont of application US 95480611 Div ex application US 97885578 Div ex patent US 5557722 Cont of patent US 5644776 Div ex patent US 5983248
US 6105044	A	G06F-017/21	Cont of application US 91733204 Div ex application US 95419051 Cont of application US 95480611 Div ex application US 97885578 Div ex patent US 5557722 Cont of patent US 5644776 Div ex patent US 5983248

Abstract (Basic): CA 2048039 A

The **data** processing system represents an electronic **document** , which has descriptive mark-up defining a number of hierarchical mark-up elements, each element having a type name and may have at least one of a parent element, a child element, a left sibling element, a right sibling element, **text** content and a type name. The **data** processing system includes storage which holds a value indicative of any parent element for each mark-up element and storage for a value indicative of at least the first child element for each mark-up element having a child element.

Additional storage is respectively provided at a value indicative of at least one sibling element. The **document** **text** , and a value indicating the **text** storage location. A **parsing** device provides a sequence of **parsing** events including element and **text** events corresp. to mark-up and **text** content respectively, with each event being assigned an **identifier** .

USE/ADVANTAGE - for rendering and indexing of electronic books. Creates **text** separate from formatting properties. Allows **selective** re-formatting of parts of **document** . Provides immediate **document** display.

Dwg.8/22

Title Terms: **DATA** ; PROCESS; SYSTEM; RANDOM; ACCESS; RENDER; ELECTRONIC; **DOCUMENT** ; DESCRIBE; MARK; UP; ELEMENT; DEFINE; NODE; ELEMENT; TREE; STRUCTURE; **DOCUMENT** ; UNIQUE; IDENTIFY; ELEMENT; FACILITATE; **TEXT** ; HANDLE

Index Terms/Additional Words: **DOCU MENT_FOR MATTING_ INDE XING_RET** ; FORMATTING; INDEXING; **RETRIEVAL**

Derwent Class: T01

International Patent Class (Main): **G06F-009/00** ; **G06F-017/21**

File Segment: EPI

26/5/19 (Item 19 from file: 347)
DIALOG(R)File 347:JAPIO

05505579
SYSTEM AND METHOD FOR SUPPORTING DEVELOPMENT

PUB. NO.: 09-120379 [JP 9120379 A]
PUBLISHED: May 06, 1997 (19970506)
INVENTOR(s): MAKITA HIROSHI
MATSUZAKI YOSHIE
SUZUKI HIDEAKI
KISHIKAWA ROBERUTO
KITAZAWA HIROSHI
IZUSHI MINETOSHI
APPLICANT(s): HITACHI LTD [000510] (A Japanese Company or Corporation), JP (Japan)
APPL. NO.: 07-275892 [JP 95275892]
FILED: October 24, 1995 (19951024)
INTL CLASS: [6] **G06F-013/00** ; H04L-012/54; H04L-012/58
JAPIO CLASS: 45.2 (**INFORMATION** PROCESSING -- Memory Units); 44.3 (COMMUNICATION -- Telegraphy

ABSTRACT

PROBLEM TO BE SOLVED: To automatically **extract information** , needed to solve a problem written in an electronic mail, from stored **information** and display it by **selecting** the electronic mail.

SOLUTION: When the input of a test **data** display indication is received, test **data** on a measurement item predetermined corresponding to the problem contents that a **selected** problem communication mail includes are **extracted** from the test **data** group that the **data identifier** included in the mail **identifier** of the **selected** problem communication mail and then displayed. Further, a display of instance **data** is requested, and a problem communication mail and a problem countermeasure mail including the problem contents of the **selected** communication mail are **extracted** from stored problem communication mails and problem countermeasure mails and the displayed.

26/5/20 (Item 20 from file: 347)
DIALOG(R)File 347:JAPIO

05317317 **Image available**
INFORMATION RETRIEVAL SYSTEM

PUB. NO.: 08-272817 [JP 8272817 A]
PUBLISHED: October 18, 1996 (19961018)
INVENTOR(s): NAKAMOTO SHINYA
APPLICANT(s): NIPPON STEEL CORP [000665] (A Japanese Company or Corporation), JP (Japan)
APPL. NO.: 07-077840 [JP 9577840]
FILED: April 03, 1995 (19950403)
INTL CLASS: [6] **G06F-017/30**
JAPIO CLASS: 45.4 (**INFORMATION** PROCESSING -- Computer Applications

ABSTRACT

PURPOSE: To **retrieve** an object just by referring to a storage means and to efficiently perform **retrieval** in a short time by **extracting** partial **information** for respective recording media, working it and storing it in the storage means.

CONSTITUTION: A location **information data** base 22 stores **information** for indicating which DC-ROMs 10 and the respective objects are stored in. A **retrieval** part 33 **retrieves** a **data** base 21 for the **retrieval** based on a **retrieval** command and a **retrieval** formula inputted from an input device 15 and obtains the **document ID number** of the object for satisfying the conditions of the **retrieval** formula. Further, the location **information data** base 22 is referred to and which CD-ROM 10 the object for satisfying the conditions of the **retrieval** formula is stored in is **retrieved** . A **selection** part 34 **selects** the object based on the **information** for indicating which DC-ROM 10 the object is stored in along with the **document ID number** of the object from the **retrieval** part 38 and instructs a reader 13 to read the **information** of the object.

```
Set     Items   Description
S1    2272566   PARS? OR TOKENI? OR MAP OR MAPPING OR MAPPED OR SEGREGAT? -
            OR (FILTER OR PULL)()OUT  OR EXTRACT?
S2      46910   IDENTIFIER? OR ID(N)(NUMBER OR TAG) OR PATENT()NUMBER? OR -
            UPC OR PRODUCT(N)(NUMBER? OR CODE?) OR UPN OR URN OR DOI
S3    4066679   CUT(N)PASTE? OR PASTING OR SELECT? OR HIGHLIGHT? OR DROP? -
            OR DRAG(N)DROP?
S4    7103946   SELECT? OR CHOOS? OR SEARCH? OR QUER? OR SEEK? OR FIND? OR
            RETRIEV? OR MATCH?
S5   14625136   DOCUMENT? OR TEXT? OR PAGE? OR PUBLICATION? OR PAPER? OR I-
            NFORMATION? OR DATA OR PATENT?()APPLICATION?
S6        139   S1 AND S2 AND S3 AND S4 AND S5
S7        148   S1(3N)S2
S8         20   S6 AND S7
S9     148141   S1(3N)S5
S10         0   S11 AND S12
S11     21956   S3(3N)(QUERY OR QUERIES OR REQUEST OR QUESTION? OR REQUESTS
             OR TEXT? OR INQUIR?)
S12      5781   S5(N)(NUMBER? OR ID OR IDENTIFIER? OR IDS)
S13       139   S6(N)S2
S14   2434941   MATCH? OR RECOGNI? OR IDENTIFY OR IDENTIFIES
S15      1230   S5(2N)S2
S16        32   S6 AND S9
S17         2   S6 AND S11
S18        61   S14(5N)S12
S19         5   S14(2N)(PATENT()(NO OR NUMBER OR ID OR IDENTIFIER?))
S20        52   S8 OR S16 OR S17 OR S19
S21        38   RD (unique items)
S22        27   S21 NOT PY>2000
S23        12   S18 AND S1
S24         7   S18 AND S3
S25        44   S23 OR S24 OR S22
S26        39   RD (unique items)
S27        36   S26 NOT PY>2000
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Set     Items   Description
S1    2272566   PARS? OR TOKENI? OR MAP OR MAPPING OR MAPPED OR SEGREGAT? -
            OR (FILTER OR PULL)()OUT  OR EXTRACT?
S2      46910   IDENTIFIER? OR ID(N)(NUMBER OR TAG) OR PATENT()NUMBER? OR -
            UPC OR PRODUCT(N)(NUMBER? OR CODE?) OR UPN OR URN OR DOI
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            OR DRAG(N)DROP?
S4    7103946   SELECT? OR CHOOS? OR SEARCH? OR QUER? OR SEEK? OR FIND? OR
            RETRIEV? OR MATCH?
S5   14625136   DOCUMENT? OR TEXT? OR PAGE? OR PUBLICATION? OR PAPER? OR I-
            NFORMATION? OR DATA OR PATENT?()APPLICATION?
S6        139   S1 AND S2 AND S3 AND S4 AND S5
S7        148   S1(3N)S2
S8         20   S6 AND S7
S9     148141   S1(3N)S5
S10         0   S11 AND S12
S11     21956   S3(3N)(QUERY OR QUERIES OR REQUEST OR QUESTION? OR REQUESTS
             OR TEXT? OR INQUIR?)
S12      5781   S5(N)(NUMBER? OR ID OR IDENTIFIER? OR IDS)
S13       139   S6(N)S2
S14   2434941   MATCH? OR RECOGNI? OR IDENTIFY OR IDENTIFIES
S15      1230   S5(2N)S2
S16        32   S6 AND S9
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S18        61   S14(5N)S12
S19         5   S14(2N)(PATENT()(NO OR NUMBER OR ID OR IDENTIFIER?))
S20        52   S8 OR S16 OR S17 OR S19
S21        38   RD (unique items)
S22        27   S21 NOT PY>2000
S23        12   S18 AND S1
S24         7   S18 AND S3
S25        44   S23 OR S24 OR S22
S26        39   RD (unique items)
S27        36   S26 NOT PY>2000
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DA894-0079 DAM
O. W. Weber

IBM® Technical Disclosure Bulletin Vol. 37 No. 11 November 1994

Resolving Ambiguous Parsing Rules

Disclosed is a system which ensures the appropriate mapping of ambiguous address book fields for use by a synchronization program. This is accomplished by defining system default rules to either accommodate known exceptions or to inform the user of potential error situations.

Products such as ABS/2* synchronize one address book with another, such as synchronizing a ccMail** data base with a VM Callup data base. To prepare for the synchronization, the system administrator must define how the fields of each data base are going to be mapped to each other. Parse rules are made available to break a source field into multiple master fields. This allows mapping to be accomplished at a more granular level and allows users to move data from directories supporting different formats while maintaining the correct format in each environment. Examples of types of parse rules that may prove useful are:

- Breaking a complete name into its component parts.
- Breaking a phone number into area code, exchange, and number.

Following is an example of how one might parse a telephone number into its component parts:

```
Source field:  PHONE:  (817)555-1212:  !MAREA!
                                       !MEXCHANGE!
                                       !MNUMBER!
```

The following parse rule will fill the destination fields with the correct data:

(!MAREA!) !MEXCHANGE!-!MNUMBER!

However, a problem exists if there is a record in the data base that doesn't conform to this mapping. For example, phone numbers are sometimes entered without any punctuation, such as the parameters for making a call via a modem. In cases like these, the synchronization program is broken, either terminating or mapping the fields incorrectly unbenounced to the user. The disclosed system ensures the appropriate mapping even in these ambiguous situations by defining system default rules to either accommodate known exceptions or to inform the user of potential error situations.

Continuing with the above phone number example, the administrator can define the following system default rules, based upon the length (number of non-blank characters contained in) the phone number field:

Length	Assumed Format	Example
>13	Message to user	
13	(!MAREA!)!MEXCHANGE!-!MNUMBER!	(817)555-1212
12	(!MAREA!)!MEXCHANGE!!MNUMBER!	(817)5551212
11	!MAREA!!MEXCHANGE!-!MNUMBER!	817555-1212
10	!MAREA!!MEXCHANGE!!MNUMBER!	8175551212
9	Message to user	
8	!MEXCHANGE!-!MNUMBER!	555-1212
7	!MEXCHANGE!!MNUMBER!	5551212
6	!MPREFIX!-!MNUMBER!	5-1212
5	!MPREFIX!!MNUMBER!	51212
4	!MNUMBER! 1212	
<4	Message to user	

Now, if a non-standard entry is detected in a phone field, the system will map the field according to the appropriate system default rule. For example, if "8175551212 is detected, the system removes any blank characters, determines the length of the field (10), automatically assumes that the rule to be used is "!MAREA!!MEXCHANGE!!MNUMBER!, and assumes that 817 is the area code, 555 is the exchange, and 1212 is the number.

With this method, the data integrity of the mapped fields is maintained. Of course, the phone number scenario is only one example, as is the keying off the length of the field.

Also disclosed is the ability to automatically detect other non-conforming fields. For example, if the directory field, NAME, contains data in the following format:

Smith, R. (John)

the following is a typical parse rule that would correctly parse the name field:

!LNAME!, !MI! (!FNAME!)

The LNAME, MI, and FNAME are master fields. For the parse rule above, they would contain:

LNAME = Smith
FNAME = John
MI = R.

However, a problem exists if there is a record in the data base that doesn't conform to any of the defined mappings. For example, if a record contains a NAME field as follows:

Smith, J.R. (John)

as some data bases do, then the middle initial incorrectly gets mapped as :

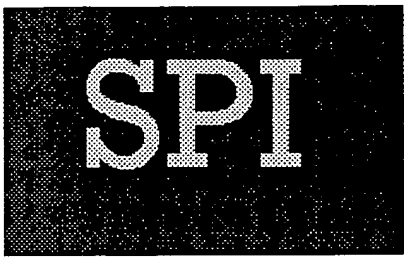
MI = J.R.

The disclosed system detects that the "J" in the first middle initial matches the first letter of the first name "John". Then depending upon the preconfigured profile, the system will take one of the following actions:

- Automatically assume that the "J" in the first middle initial is redundant with the first letter of the first name "John", and that this person's name is "John R. Smith". Fields will then be mapped accordingly.
- Surface this exception to the administrator, who then decides whether this person's name is "John R. Smith" or "John J. R. Smith". Fields will then be mapped accordingly.

Also disclosed is the automatic search of the data base, and subsequent warning to the administrator upon detection of non-conforming data. The administrator is then allowed to intervene to ensure an accurate mapping of the non-conforming field. This process can either be performed at mapping time or at synchronization time.

* Trademark of IBM Corp.
** Trademark of Lotus Corp.



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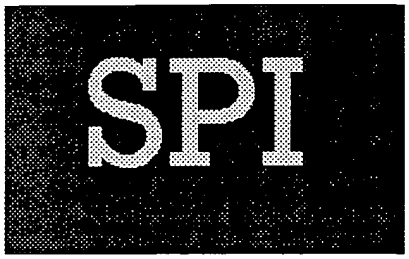
Record 5

Serial number TDB1194.0083

Field Name	Contents of Record 5
Size of Record	5157 total bytes in record, 4987 in TX field
Title	Resolving Ambiguous **Parsing** Rules
Publication Date	November, 1994
Copyright Notices	This record was retrieved 15:03:53 Tue, June 7, 2005 from the SPI Database of Software TechnologiesCopyright © 1995-1998 Software Patent Institute. Database entry Copyright © Software Patent Institute This article is © Copyright IBM Corp.
Text of Submission	.... system which ensures the appropriate **mapping** of ambiguous address book fields for .... be mapped to each other. **Parse** rules are made available to .... multiple master fields. This allows **mapping** to be accomplished at a more .... component parts. o Breaking a phone **number** into area code, exchange, and .... example of how one might **parse** a **telephone number** into its component parts: Source field: PHONE: (817)555-1212: !MAREA! !MEXCHANGE! ! MNUMBER! The following **parse** rule will fill the destination .... is broken, either terminating or **mapping** the fields incorrectly unbenounced to the .... The disclosed system ensures the appropriate **mapping** even in these ambiguous situations .... situations. Continuing with the above phone **number** example, the administrator can define the .... non-blank characters contained in) the phone **number** field: Length Assumed Format Example ------ ---------- .... is maintained. Of course, the phone **number** scenario is only one example, as .... (John) the following is a typical **parse** rule that would correctly **parse**

	the name field: !LNAME!, !MI! (!FNAME!) The LNAME, ... are master fields. For the **parse** rule above, they would contain: LNAME = ... accordingly. Also disclosed is the automatic **search** of the data base, and subsequent .... to intervene to ensure an accurate **mapping** of the non-conforming field. This process can either be performed at **mapping** time or at synchronization time. * Trademark
Reference (pointer to work)	IBM TDB v37 n11 11-94 p211-214 Order: 94A 63339
Submission Date	April 19, 1995
Date Loaded into Database	February 14, 1997
Publisher	IBM Corporation.
Journal	IBM TDB
Corporate Source	IBM
Country of Origin	U.S.A.
Publication Language	English
Source Type (Journal, book, etc.)	journal



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Publication Date: April, 1998

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Publication Date: July, 1994

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5. Resolving Ambiguous Parsing Rules
Publication Date: November, 1994

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